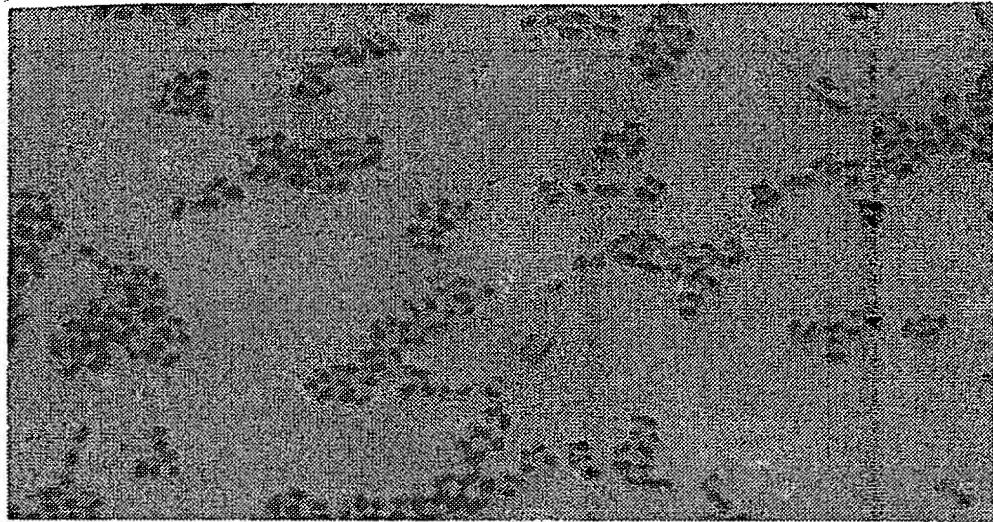


App No.: 09/696,929 Docket No.: 524412000400  
Inventor: Lee A. BULLA, Jr., et al.  
Title: MICROBE, MICROBIAL EXOPOLYSACCHARIDE AND USES  
THEREOF



16523 U.S. PTO  
012004



**Figure 1**

012004  
1623 U.S. PTO

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THEREOF

Figure 2

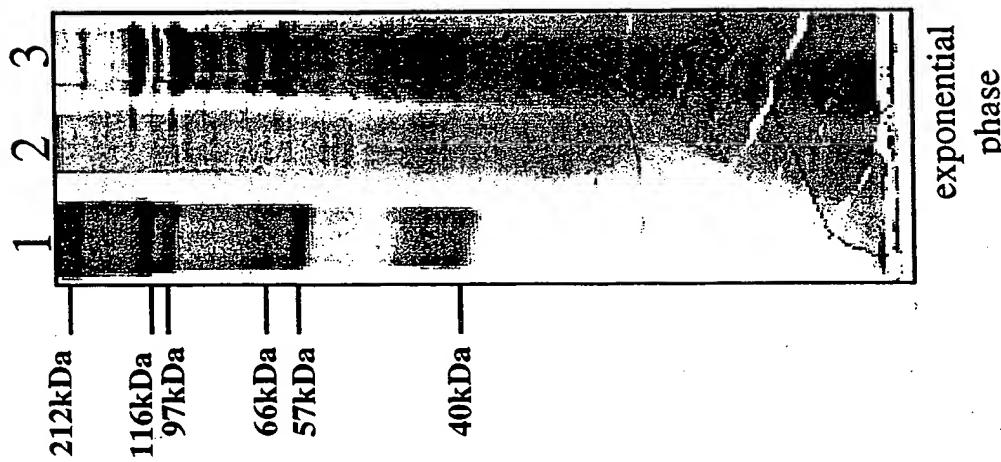
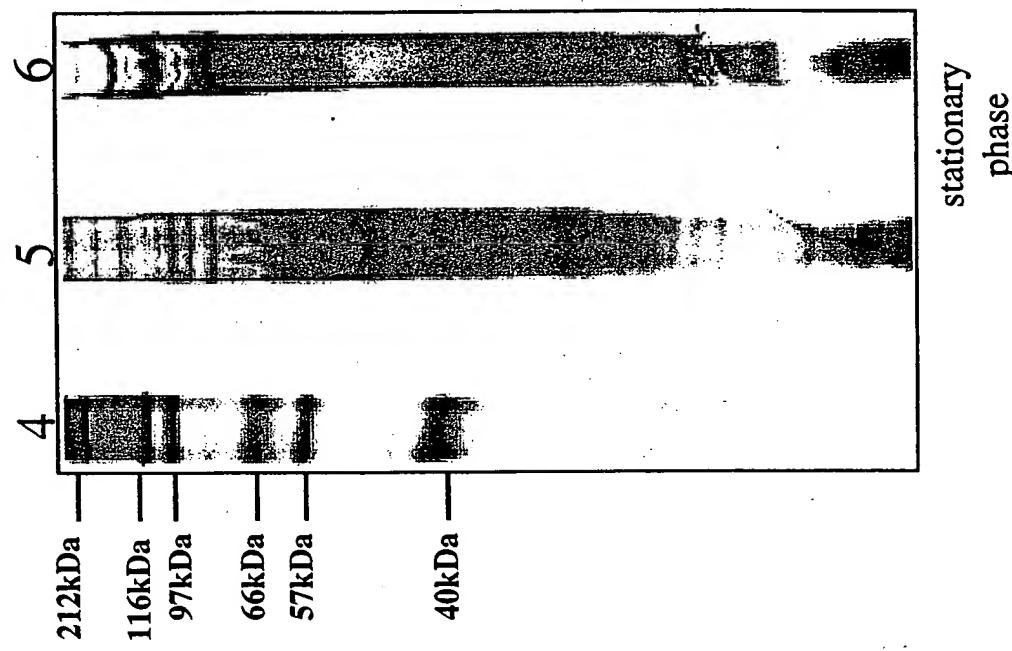


Figure 3



Lanes 1 & 4: M.W. stds.

Lanes 2 & 5: UTD-001

Lanes 3 & 6: *B. indica* 9038

exponential  
phase

stationary  
phase



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<i>RT</i>	<i>Area</i>	<i>Ar/HT</i>	<i>Respn</i>	<i>ECL</i>	<i>Name</i>	<i>%</i>	<i>Comment 1</i>	<i>Comment 2</i>
1.681	412383000	0.030	*****	7.006	SOLVENT PEAK	***	< min rt	
1.794	16776	0.024	*****	7.227	*****	***	< min rt	
2.241	750	0.044	*****	8.104	*****	***	< min rt	
2.300	1326	0.044	*****	8.104	*****	***	< min rt	
2.347	504	0.032	*****	8.219	*****	***	< min rt	
3.849	1128	0.028	1.102	8.312	Sum In Feature 3	0.15	ECL deviates 0.002	12:0 ALDE?
4.833	25458	0.031	1.052	10.916	12:0	3.34	ECL deviates - 0.000	Reference - 0.004
5.989	4578	0.038	1.015	12.000	13:0	0.58	ECL deviates 0.000	Reference - 0.003
7.102	1032	0.043	*****	13.000	*****	***		
7.296	4584	0.050	0.986	13.813	unknown 13.961	0.56	ECL deviates - 0.007	
7.358	4584	0.039	0.985	13.813	14:0	6.74	ECL deviates - 0.001	Reference - 0.004
8.080	54882	0.040	0.974	13.954	Sum In Feature 2	0.50	ECL deviates - 0.001	13:0 30H/15:1 i l/H
8.130	41344284	0.039	0.973	13.999	unknown 14.503	0.52	ECL deviates - 0.002	
8.576	810	0.038	0.967	14.469	15:1 w8C	0.10	ECL deviates - 0.001	
8.897	32478	0.041	0.963	14.501	15:0	3.90	ECL deviates - 0.000	Reference - 0.004
9.189	1974	0.043	*****	14.791	*****	***		
9.704	58386	0.044	0.955	15.000	Sum In Feature 3	6.95	ECL deviates - 0.003	16:1 ISO I/14:0 30H
10.259	183384	0.044	0.950	15.176	Sum In Feature 4	21.7	ECL deviates - 0.002	16:1 w7c/15 iso 20H
10.407	1512	0.043	0.948	15.908	15:1 w5C	8.18	ECL deviates - 0.000	
10.562	212406	0.044	0.947	16.002	16:0	25.0	ECL deviates - 0.002	Reference - 0.002
10.715	1074	0.064	*****	16.091	*****	***		

*FIG. 4A*



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<i>RT</i>	<i>Area</i>	<i>Ar/HT</i>	<i>Respn</i>	<i>ECL</i>	<i>Name</i>	<i>%</i>	<i>Comment 1</i>	<i>Comment 2</i>
11.425	1188	0.041	0.941	16.502	15:0 30H	0.14	ECL deviates - 0.002	
11.924	3132	0.051	0.938	16.792	17:1 w8c	0.37	ECL deviates - 0.000	
12.091	87876	0.048	0.937	16.889	17:) CYCLO	10.2	ECL deviates - 0.001	Reference - 0.003
12.282	14676	0.046	0.936	17.000	17:0	1.71	ECL deviates - 0.000	Reference - 0.004
13.598	996	0.050	*****	17.750	*****	*****		
13.725	146304	0.048	0.929	17.822	Sum In Feature 7	16.9	ECL deviates - 0.000	18:1 w7c/w9t/w12t
14.032	1122	0.044	0.928	17.997	18:0	0.13	ECL deviates - 0.003	Reference - 0.007
14.797	1242	0.057	*****	18.437	*****	*****		
14.986	822	0.053	*****	18.546	*****	*****		
15.605	1446	0.048	0.923	18.901	19:0 CLYCL w8c	0.17	ECL deviates - 0.001	Reference - 0.003
15.888	480	0.045	*****	19.065	*****	*****		
19.033	690	0.042	*****	20.888	*****	*****	>max rt	
19.715	90	0.033	*****	21.284	*****	*****	>max rt	
*****	4134	*****	*****	*****	SUMMED FEATURE 2	0.50	15:1 ISO H/13:0 30H	13:0 30H/15:1 i I/H
*****	*****	*****	*****	*****	*****	*****	15:1 ISO I/13:0 30H	
*****	59514	*****	*****	*****	SUMMED FEATURE 3	7.10	12:0 ALDE ?	unknown 10.928
*****	*****	*****	*****	*****	*****	*****	16:1 ISO I/14:0 30H	14:0 30H/16:1 ISO I
*****	183384	*****	*****	*****	SUMMED FEATURE 4	21.7	16:1 w7c/15 iso 20H	15:0 ISO 20H/16:1w7c
*****	146304	*****	*****	*****	SUMMED FEATURE 7	16.9	18:1 w7c/w9t/w12t	18: w9c/w12t/w7c
*****	*****	*****	*****	*****	*****	*****		18:1 w12t/w9t/w7c

*FIG. 4B*



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Solvent Ar	Total Area	Named Area	% Named	Total Amount	Nbr	ECL Deviation	Ref ECL Shift
41238300	851388	843768	99.10	802384	9	0.002	0.004
TSBA (Rev.3.90)	K. luyvera .....					0.835	
	K. cryocrescens .....					0.835	
	K. ascorbata .....					0.528	
Enterobacter .....						0.753	
E. taylorae .....						0.753	
E. asburiae*						0.510	
E. cloacae*						0.397(excludes ATCC 35549 which is atypical	
Salmonella .....						0.521	
S. choleraesuis .....						0.521	
S. c. arizonae						0.521	
S. c. choleraesuis .....						0.421	
S. bongori .....						0.275	
S. typhiurium .....						0.267	
S. t. GC subgroup B .....						0.267	
S. t. Gc subgroup A .....						0.182	

FIG. 4C



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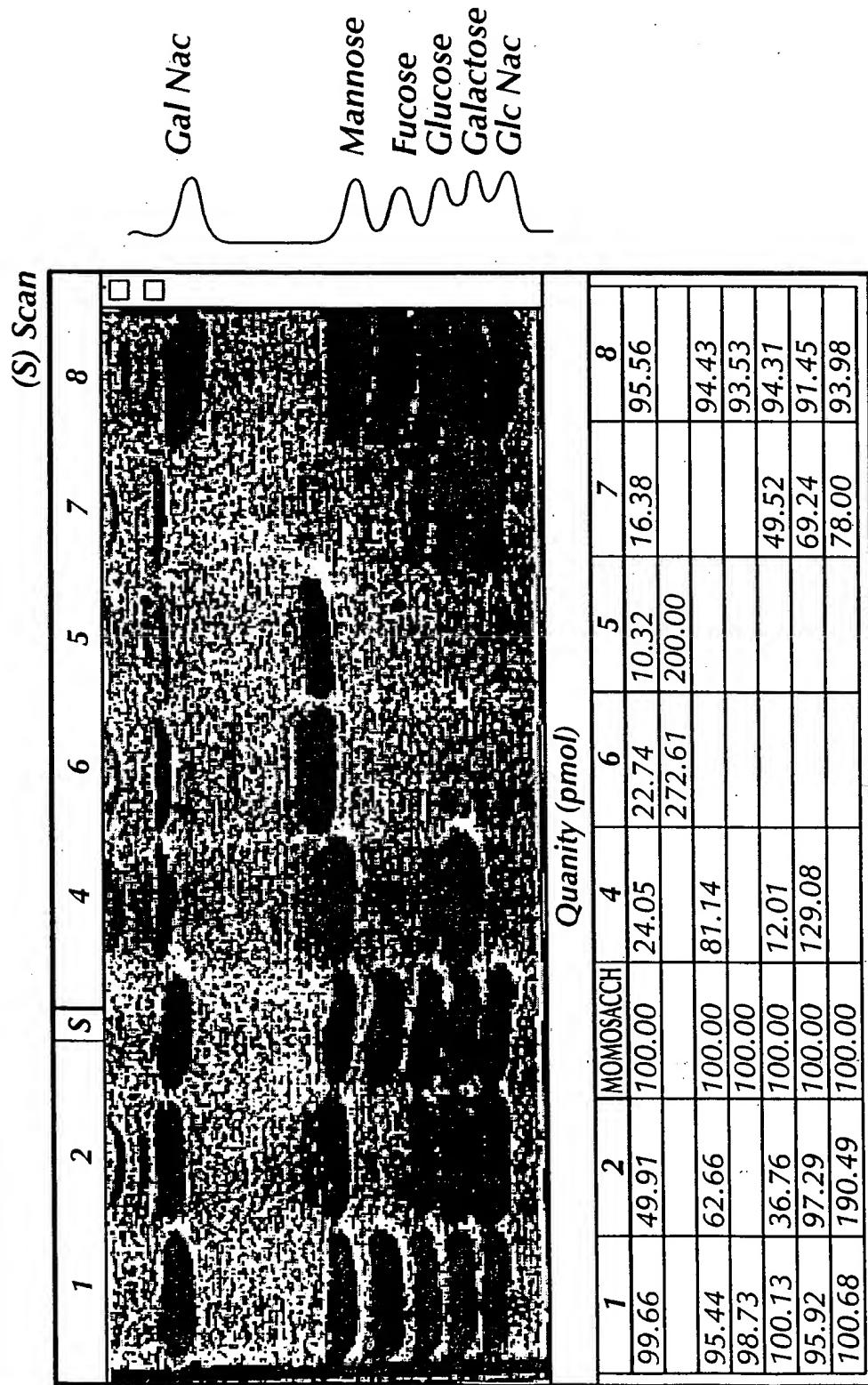


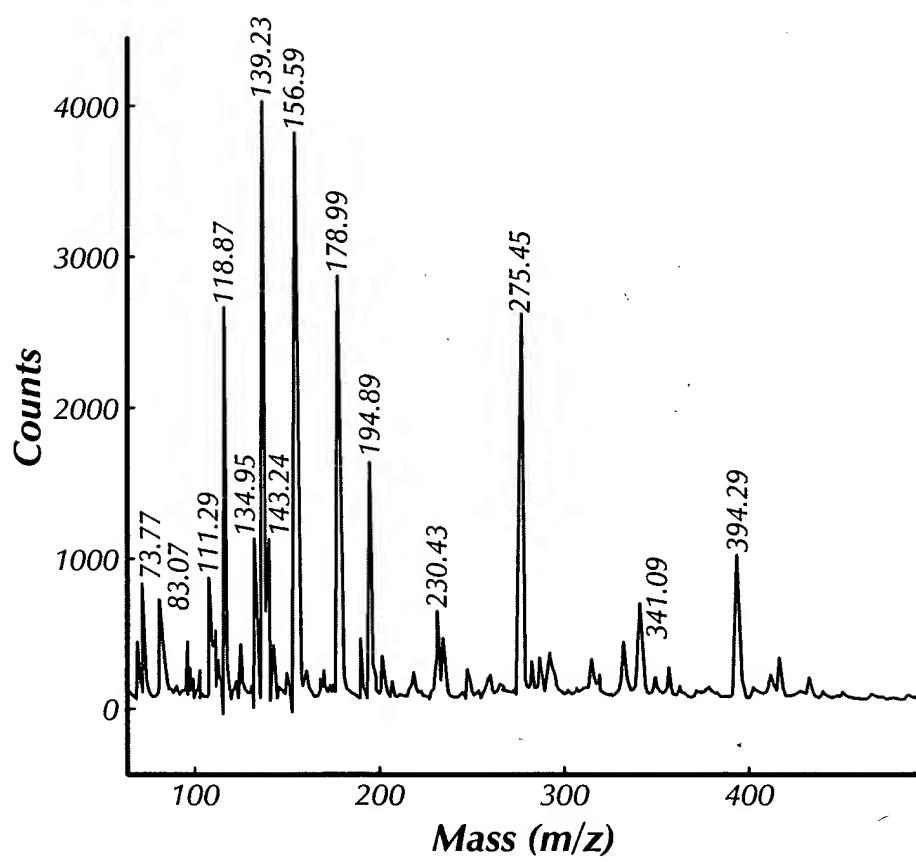
FIG. 5

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**FIG. 6A**



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Method: LDE 1000

Mode: Linear

Accelerating Voltage: 25000

Grid Voltage: 92.000%

Guide Wire Voltage: 0.100%

Delay: 100 ON

Laser: 2070

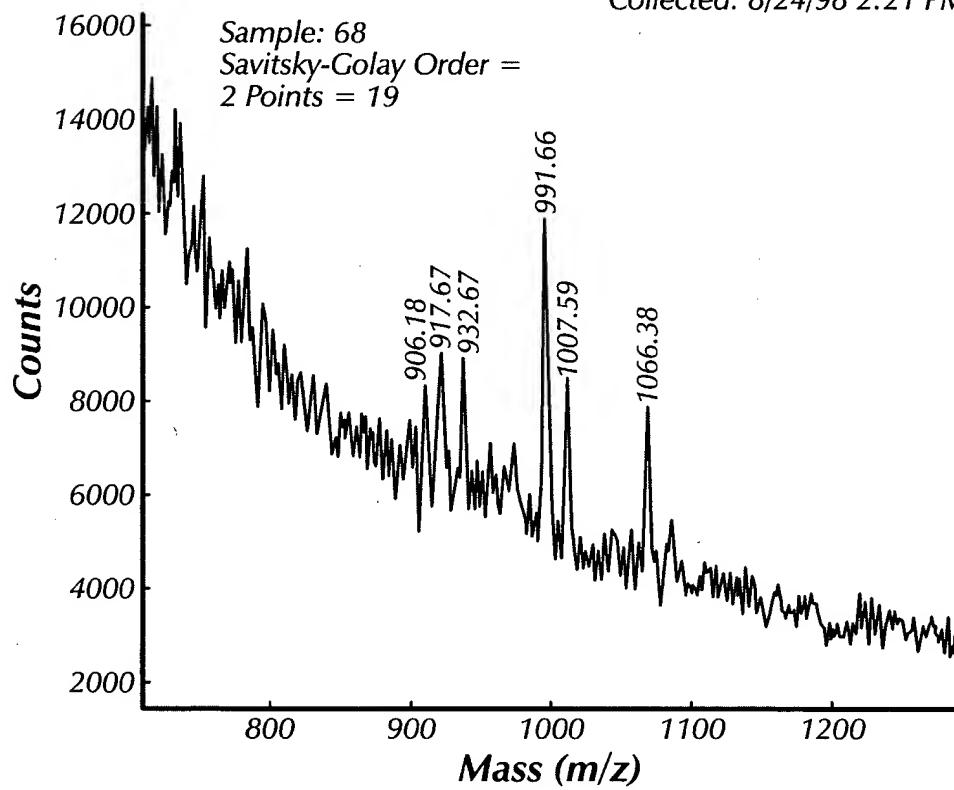
Pressure: 2.81c-07

Low Mass Gate: 500.0

Timed Ion Selector: 938.0 OFF

Negative Ions: OFF

Collected: 8/24/98 2:21 PM



**FIG. 6B**

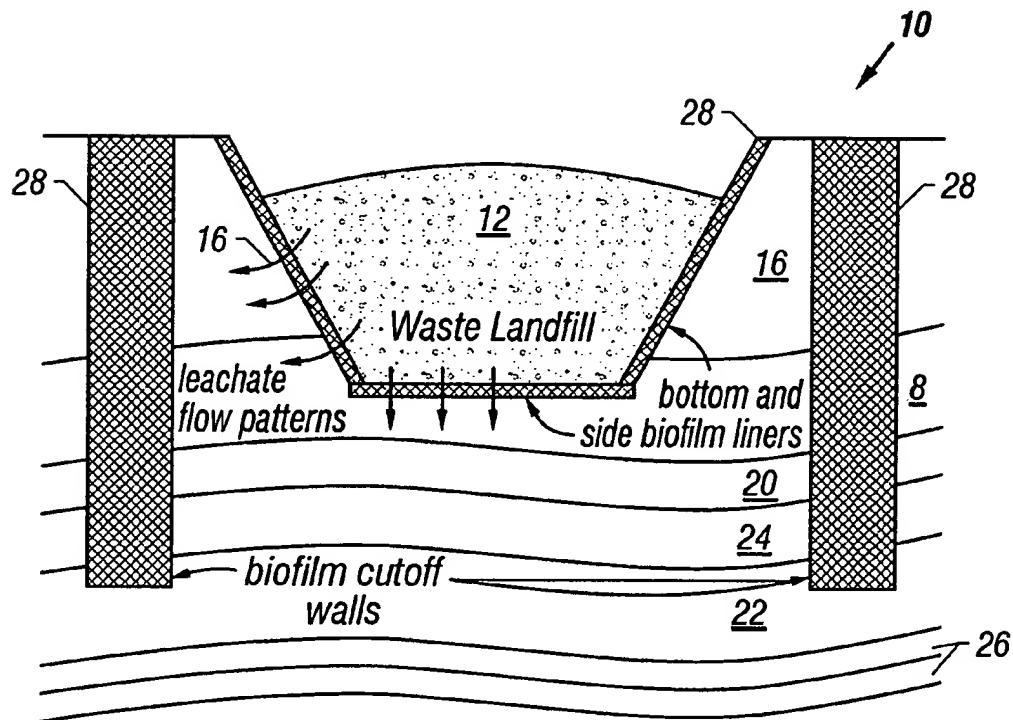


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**FIG. 7**



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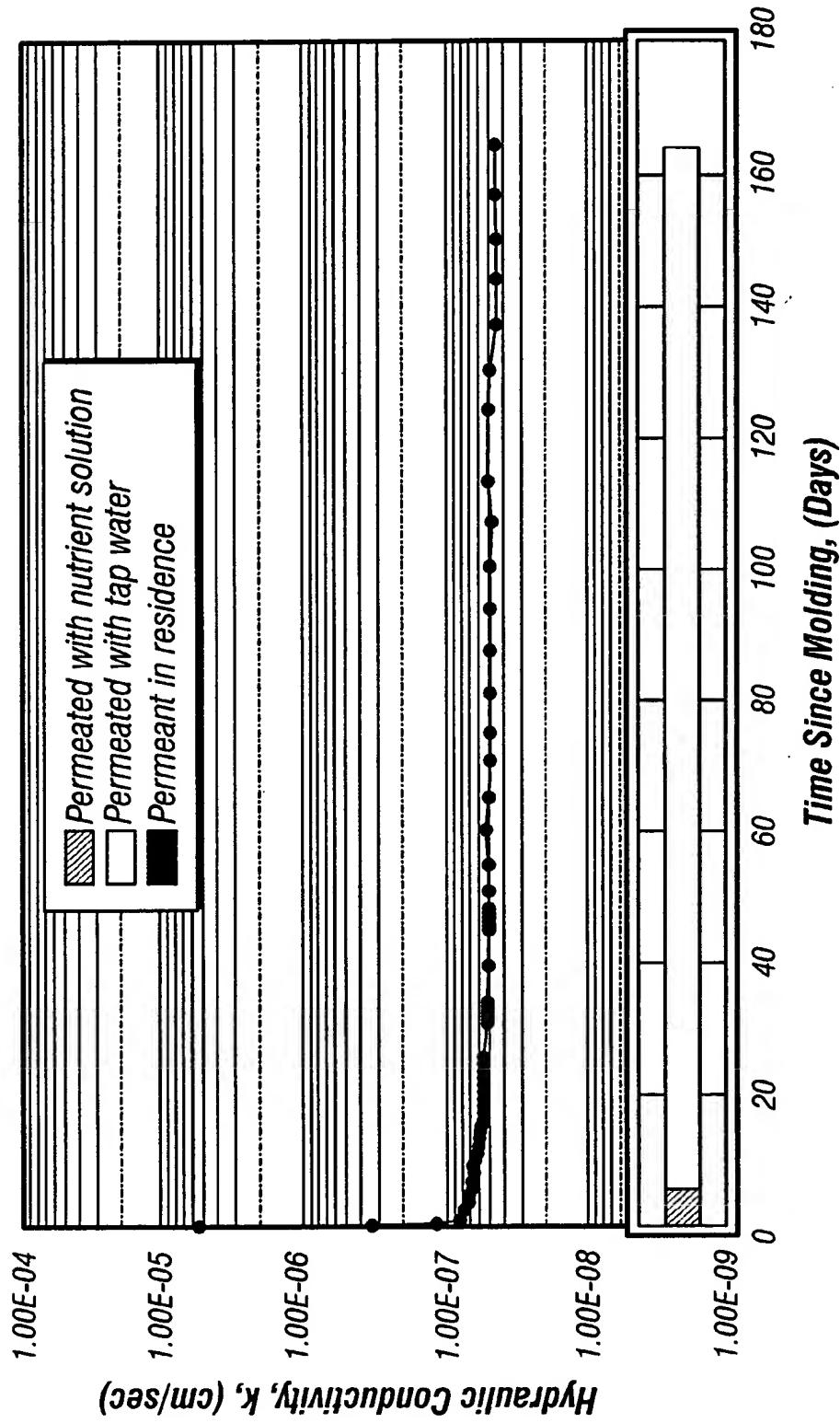


FIG. 8